

# Leon County Schools – Summer Math Worksheets – 8<sup>th</sup> Grade Pre-Algebra

This summer math worksheet is for students entering the 8<sup>th</sup> grade Pre-Algebra class. Work the following problems over the summer. Be sure to show ALL your work neatly on a separate sheet of paper. Your teacher will ask for this in August for a grade. NO Calculators should be used on this worksheet.

Simplify:

1.  $3\frac{1}{2} + 2\frac{3}{5}$

2.  $7 - 3\frac{4}{7}$

3.  $2\frac{5}{6} + 5\frac{3}{4} - 3\frac{2}{3}$

4.  $5\frac{5}{8} \cdot 2\frac{2}{3}$

5.  $4\frac{3}{5} - 2\frac{2}{3} \div \frac{4}{9}$

6.  $2\frac{4}{7} + 5\frac{1}{3} \div 1\frac{3}{5} \div 4\frac{2}{3}$

7.  $\frac{360}{392}$

8.  $\frac{18}{432}$

9.  $\frac{140ab^2}{560a^2b}$

10.  $4.45 + 3.4 + 7.254$

11.  $8.2 - 3.46$

12.  $1.5 \div 1.2$

13.  $4.9 \cdot 5.32$

14.  $6 - 7.25 \div 2.5 + 3.42$

15.  $6 \cdot (-4) - (-2)$

16.  $6k - 4 + 8k$

17.  $3(m + 8) + 4m$

18.  $(-5) - (-8) \cdot 7$

19.  $-5(-2 + 4n) - 7n$

20.  $\sqrt{169}$

21.  $\sqrt{36} + \sqrt{81}$

22.  $7m + 5c - 10m - 9c$

23.  $6 \cdot 5 + 18 \div 3$

24.  $7 - (-7c) + 4c$

Write each number as a decimal:

25. 3%

24.  $\frac{2}{25}$

25. 42  $\frac{1}{2}$ %

26.  $\frac{32}{40}$

Write each number as a fraction. Be sure to simplify:

27. 35%

28. 0.28

29. 3.82

30. 8%

Solve for the variable:

31.  $7n + 9 = 86$

32.  $m + 11 = -8$

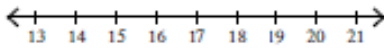
33.  $-4c - 8 = 24$

34.  $\frac{v}{3} + 5 = 8$

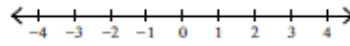
35.  $2m + 6m = -24$

36.  $\frac{c}{-4} + 5 = -9$

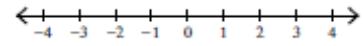
37.  $d - 5 < 12$



38.  $-7c > 21$

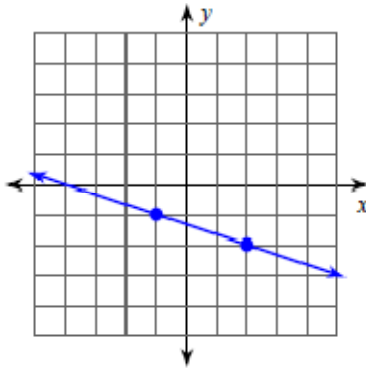


39.  $-4m - 5 < 3$

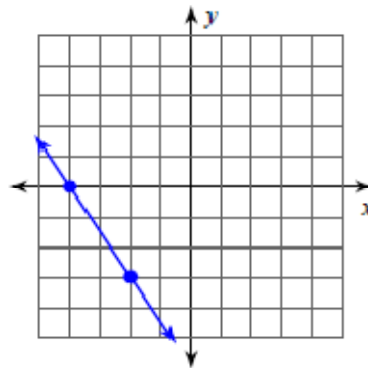


Find the slope:

40.

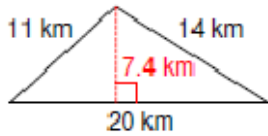


41.

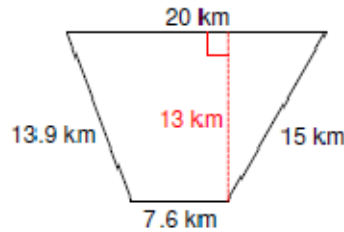


Name the polygon and find the perimeter and area:

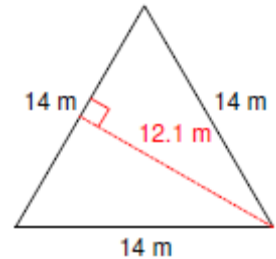
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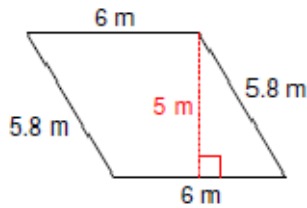
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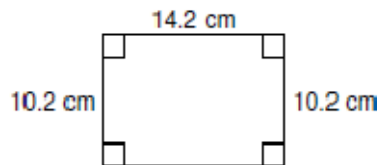
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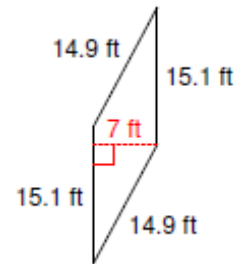
45.



46.



47.

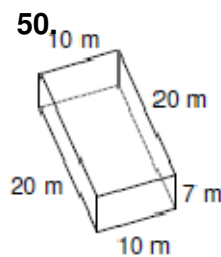


Name the polyhedra and find the volume and surface area:

48.



49.



50.

